

Weld County, Colorado, Northern Part

54—Platner loam, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 3609

Elevation: 4,500 to 5,900 feet

Mean annual precipitation: 17 to 19 inches

Mean annual air temperature: 46 to 52 degrees F

Frost-free period: 140 to 165 days

Farmland classification: Prime farmland if irrigated

Map Unit Composition

Platner and similar soils: 80 percent

Minor components: 20 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Platner

Setting

Landform: Stream terraces, plains

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Calcareous loamy alluvium

Typical profile

H1 - 0 to 4 inches: loam

H2 - 4 to 24 inches: clay

H3 - 24 to 60 inches: sandy loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat):

Moderately low to moderately high (0.06 to 0.20 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum in profile: 10 percent

Salinity, maximum in profile: Nonsaline (0.0 to 2.0 mmhos/cm)

Available water storage in profile: Moderate (about 8.9 inches)

Interpretive groups

Land capability classification (irrigated): 2e

Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: C

Ecological site: Loamy plains (R067BY002CO)

Minor Components

Ascalon

Percent of map unit: 8 percent

Manzanola

Percent of map unit: 6 percent

Nunn

Percent of map unit: 6 percent

Data Source Information

Soil Survey Area: Weld County, Colorado, Northern Part

Survey Area Data: Version 9, Dec 23, 2013